

Premarket Notification 510(k) Summary
As required by section 807.92
Navigator Applications Suite

AUG - 7 2008

GENERAL COMPANY INFORMATION as required by 807.92(a)(1)

COMPANY NAME/ADDRESS/PHONE/FAX:

GE Healthcare Finland OY
C/O Datex-Ohmeda
PO Box 7550
Madison, WI 53707 USA
Tel: 608-221-1551
Fax: 608-223-2496

NAME OF CONTACT:

Ms. Adrienne Lenz, RAC
Ms. Karla Krause (alternate)

DATE:

June 25, 2008

DEVICE NAME as required by 807.92(a)(2)

TRADE NAME:

Navigator Applications Suite

COMMON NAME:

Navigator Applications Suite

CLASSIFICATION NAME:

BSZ, Accessory to gas machine for anesthesia or analgesia

**NAME OF LEGALLY MARKETED DEVICE FOR WHICH A CLAIM OF SUBSTANTIAL
EQUIVALENCE IS MADE as required by 807.92(a)(3)**

The Navigator Applications Suite is substantially equivalent in safety and effectiveness to the legally marketed (predicate) Navigator Applications Suite (K071097).

DEVICE DESCRIPTION as required by 807.92(a)(4)

The Navigator Applications Suite is a product that integrates information from an anesthesia delivery system, intravenous drug infusion pumps, and patient monitor. The three main functions of the Navigator are:

- Navigator Therapy: Visualization of the modeled effect of the anesthesia drugs on the patient, displayed on a point-of-care Navigator computer. The visualization is based on pharmacokinetic and pharmacodynamic (PK/PD) models and multi-drug models for propofol and four analgesic drugs. Navigator also supports automatic data capture from supported intravenous drug infusion pumps to minimize manual data entry.
- Navigator Protocol: Framework to enable access to facility-selected care protocols at the point of care.
- Navigator Device: Electronic and interactive instructions for users to address technical issues with anesthesia delivery systems.

The Navigator Applications Suite has been modified to work in a network environment.

INTENDED USE as required by 807.92(a)(5)

Navigator Applications Suite (Navigator) is a software package that includes Navigator Therapy, Navigator Protocol and Navigator Device. Navigator software is loaded into a medical grade PC physically mounted to the Anesthesia Delivery System and receives data from supported Anesthesia Delivery Systems, Anesthesia Patient Monitors and Intravenous Drug Infusion Pumps.

Navigator Therapy displays pharmacokinetic, pharmacodynamic (PK/PD) and synergistic PD modeling information. Navigator Therapy provides the health care provider with information about the modeled effect of supported anesthesia pharmaceuticals delivered to the patient.

Models only apply to the following patient populations:

Age:	18 – 90 years old
Weight:	40Kg – 140 Kg
Height:	150cm – 190cm

Calculated drug concentrations and effects are based on published models, and do not represent actual measurements from a patient. Drug models are calculated and displayed assuming a healthy patient.

Navigator Protocol allows facilities to load electronic versions of care protocols. This feature can be configured with selected patient monitoring parameters available for viewing in conjunction with the care protocol.

Navigator Device is a troubleshooting aid with access to certain Anesthesia Delivery System alarm information.

The system is designed for facility use and should only be used under the orders of a clinician.

SUMMARY OF TECHNOLOGICAL CHARACTERISTICS OF DEVICE COMPARED TO THE PREDICATE DEVICE as required by 807.92(a)(6)

The Navigator Applications Suite has been updated from the predicate version (K071097). The Therapy, Protocol and Device functionality is the same in the modified version as in the predicate version. There have been no changes to the intended use or fundamental scientific technology.

The versions differ in that the new version can now operate in a network environment. The previously cleared Navigator Applications Suite had direct connections to a single S/5 Anesthesia Monitor and Infusion pumps. In this configuration, the S/5 Anesthesia Monitor could not be connected to a central station. The new configuration allows 16 Navigator's to be used by connection to an iCentral Network and Central Station, which in turn connects to the S/5 Anesthesia Monitors.

SUMMARY OF NONCLINICAL TESTING FOR THE DEVICE and CONCLUSIONS as required by 807.92(b)(1)(3)

Navigator Applications Suite has been thoroughly tested through verification of specifications and validation, including software validation. Verification of compliance with the following standards has also been made to support safe use of the device in its intended environment.

IEC 60601-1 ¹	Medical Electrical Equipment, Part 1: General Requirements for Safety
IEC 60601-1-1: 2000	Medical Electrical Equipment, Safety requirements for medical electrical systems
EN 60601-1-2: 2001	Medical Electrical Equipment, Part 2: Electromagnetic Compatibility—Requirements and Tests
EN 60601-1-4: 2000	Medical Electrical Equipment, Part 4 Programmable Electrical Medical Systems
EN 980:2003	Graphical Symbols for Use in Labeling Medical Devices
EN 1041: 1998	Information Supplied By the Manufacturer
EN ISO14971: 2000	Medical devices—Application of risk management to medical devices

SUMMARY OF CLINICAL TESTING FOR THE DEVICE and CONCLUSIONS as required by 807.92(b)(2)

The modifications made to the Navigator Applications Suite did not require clinical testing.

CONCLUSION:

The summary above shows that there are no new questions of safety and effectiveness for the Navigator Applications Suite as compared to the predicate device.

¹ 1988 plus Amendment 1: 1991 and Amendment 2: 1995



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

GE Healthcare Finland Oy
C/O Ms. Adrienne Lenz
Senior Regulatory Affairs Specialist
Datex-Ohmeda, Incorporated
P.O. Box 7550
Madison, Wisconsin 53707-7550

AUG - 7 2008

Re: K081941

Trade/Device Name: Navigator Applications Suite
Regulation Number: 21 CFR 868.5160
Regulation Name: Gas Machine for Anesthesia or Analgesia
Regulatory Class: II
Product Code: BSZ
Dated: June 25, 2008
Received: July 8, 2008

Dear Ms. Lenz:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Center for Devices and Radiological Health's (CDRH's) Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at 240-276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at 240-276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Chiu Lin', with a stylized flourish at the end.

Chiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital,

Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K

Device Name: Navigator Applications Suite

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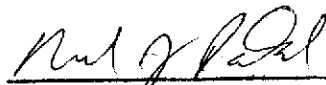
Prescription Use XXX
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER
PAGE IF
NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

 for M.H.
(Division Sign-Off)
Division of Anesthesiology, General Hospital
Infection Control, Dental Devices

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510(k) Number: K081941